

PACKAGING ARCHITECTURE FOR A MULTIPLE ARRAY
TRANSCIVER USING A FLEXIBLE CABLE AND STIFFENER
FOR CUSTOMER ATTACHMENT

ABSTRACT OF THE DISCLOSURE

The packaging architecture for a multiple array transceiver using a flexible cable and stiffener for customer attachment of the present invention provides a 90 degree transition between an optical signal input/output at a communication chassis bulkhead, and an provides for a ball grid array attachment to a common host board. The packaging architecture system comprises a forward vertical carrier having an optical converter; a stiffener block, the stiffener block oriented about 90 degrees from the forward vertical carrier; and a flexible cable electrically connecting the optical converter of the forward vertical carrier to a solder ball array aligned with the stiffener block. The multiple array transceiver makes the 90 degree transition within a narrow gap established by industry and manufacturing standards. The multiple array transceiver also provides cooling to the internal electronics through a heat sink attached to the stiffener block, which concurrently mounts and locates the transceiver to the common host board.